

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: Dave Adams <adamsclan@netgate.net>
Subject: 3a4
Message-ID: <32C03E43.459D@netgate.net>

Does anyone have a 3a4 tube they want to part with? I do have some tubes I can trade, though nothing spectacular...anyone need a 6gh8a?

73 de dave, n9uxu

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: "Gary F. Franklin" <103273.1070@CompuServe.COM>
Subject: 4CX1500B
Message-ID: <961224223417_103273.1070_IHH45-2@CompuServe.COM>

Greetings to all!

Can a 4CX1500B be used as a direct replacement for a 4CX1000A in a Collins 30S-1??

Gary K8BKB

E-Mail: 103273,1070@compuserve.com

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: Dan Martin <dmartin@visuallink.com>
Subject: 51J4 Info
Message-ID: <32BFE49F.74EF@visuallink.com>

Merry Christmas BA folks:

Any Collins fans know how many J4's were manufactured? Checking all the "usual" indicators on my J4 (dates on the bottom of plug-in caps, crystals, etc) suggest mine is a 1959 vintage, therefore reasonably late manufacture in a '52 to '62 production run. Yet my rig's serial number is a seemingly low 1801. I guess there just weren't that terribly many made in comparison to some of the more prevalent rigs of the day. What say someone, please?

73
Dan
WB4GRA
Winchester, VA

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: roecker.greg@ist.mds.lmco.com
Subject: RE: 51J4 Info
Message-ID: <Chameleon.851449370.greg@roeckerpc.ist.mds.lmco.com>

--- On Tue, 24 Dec 1996 07:31:59 -0600 (CST) Dan Martin
<dmartin@visuallink.com> wrote:

>Merry Christmas BA folks:
>
>Any Collins fans know how many J4's were manufactured?
Yet my rig's serial number is
>a seemingly low 1801.
>73
>Dan
>WB4GRA
>Winchester, VA
>

-----End of Original Message-----

Good question . . . mine is SN#7110. Must have been a large
number though . . .

73,

Greg / N40SJ

Greg Roecker
E-mail: roecker.greg@ist.mds.lmco.com
Voice: 770.698.5226
Fax: 770.698.5220
From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: John Kolb <jlkolb@cts.com>
Subject: Re: AM bandwidth
Message-ID: <Pine.SCO.3.91.961223223407.27124A-1000000@sd.cts.com>

On Mon, 23 Dec 1996, Randy Zelick wrote:

> I was just looking back in time with the "Pocket Guide to Collins..." and
> it struck me that well within the AM era receiver bandwidths were spec'ed
> at 4-5 kHz rather than 6 kHz. This is true for the Collins, but also true
> for the Drake 2B and 4-series.
>
> One interpretation was that as improved filter technology (xtal and
> mechanical) provided more selectivity the "nominal" 4-5 kHz (which was

> always really 6-7 kHz) became too tight. Still, this does not make much

I don't think it's that the transmitters got wider so receivers also had to get wider. With the older receivers, the bandwidth was a real compromise between making the IF wide enough at the top to get a decent range of transmitted sounds (hi-fi), yet get decent selectivity to reject adjacent signals 5 or even 10 kcs away. When mechanical, ceramic, and mulitpole crystal filters became affordable, the manufacturers were able to design IF sections which were wider at the top, and really, 6 kcs (+/-3 kcs) is necessary for most users to get 3 kHz audio, the minimum for good intelligibility, while still having decent steep skirts on the filters.

John

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996

From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>

Subject: Another Fascinating Book: Vade-Mecum

Message-ID: <Pine.A32.3.91.961224150231.20281C-1000000@ppdu.nrl.navy.mil>

Vacuum Tube Experts,

The Naval Research Library periodically provides books for surplus. On the surplus shelf, I found the two Volume set of "Electronic Universal Vade-Mecum" by Piotr mkolajczyk and Bohdan Paszkowski which was published by MacMillan Press in 1964. Volume 1 includes radio-receiving valves manufactured all over the world. The tubes are classified into 442 groups with similar characteristics. For instance, group 192 comprises the pentodes EL8, EL13, EL30, EL44, EL88, 6AR5, 6K6-G, 7B5, 41, 6DS8, 7A5, 7AK7, 38, 12A5, AND 89 tubes along with their equivalents (i.e., 138 = 238 = 338 = 438 = 38, etc). Volume 1 has 660 pages.

Volume 2 contains the technical description of transmitting valves, magnetrons, nuclear radiation detectors and semiconductor devices. These are organized into 580 groups in 790 pages.

All tubes are shown with typical plate voltage-current characteristics for a range of grid voltages. The text in the book is duplicated in English, French, Spanish, Polish, German, Russian, and Italian.

The Vade-Mecum is currently located on my reference shelf at work. During my conversations with Ray Mote last week, he implied that the Vade-Mecum definitely is a "keeper".

Best Holiday Wishes to All and may your Christmas stockings be well stuffed,

Paul Bernhardt, KF4FOR

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: ARONGV@aol.com
Subject: BA Conversion Manual
Message-ID: <961224024446_743859906@emout03.mail.aol.com>

Hi Gang...

T'was the night before Christmas...and I sure wasn't dreaming about sugar plumbs. Anyway, a late night cleanout in the old shack uncovered the following;

Surplus Conversion Manual, Volume No.1, Third Edition, by RC Evenson and OR Beach, 1960. (Soft cover, 130 pages. Includes schematics and conversion to ham use.)

It covers:

BC-221 Freq meter

BC-342 Receiver

BC-312 Receiver

BC-348

BC-412 Radar oscilloscope

BC-645 xmtr/rcvr

BC-946 Receiver

SCR-274 (453 Series receivers)

SCR-274 (457 A Series) Transmitters

SCR-522 xmtr/rcvr

TBY Transceiver

PE-103A dynamotor

BC-1068A/1161A Receiver

Cross index of A/N tubes

I was just going to offer it for free, but that would surely clog up my memory here...maybe not?

Anyway, I only have one copy, so make me an offer. If you have a really compelling story about why you need it, I'll just ship along for the cost of postage.

73s & Good Hunting

Ron Wo0IZ Kansas City ARONGV@aol.com

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: howellh@winthrop.edu
Subject: BAs On the Beach
Message-ID: <96122323103691@winthrop.edu>

WINTHROP UNIVERSITY

Electronic Mail Message
Date: 23-Dec-1996 11:04pm EST
From: Haney Howell
HOWELLH
Dept: Mass Communication
Tel No: 323-4534

TO: Remote Addressee (_smtp%"boatanchors@theporch.com")

Subject: BAs On the Beach

Pulling together the firebottle goodies for the annual New Year's trek to the Outer Banks of North Carolina. Decided to go with the Heaths this year. HW-101 plus the 30L1 should push the signal accross the pond! Must admit I miss the FT-101 and the AM capability. Traded that for a 32V3, which will remain nailed to the desk!

Happy holidays to you all. Seems I read more and save more from this list than any other. Remember, a Ranger II and a Drake 2B should fit down the chimney!

Cheers Haney no2n <howellh@winthrop.edu>

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: TEK0CH@aol.com
Subject: BAs Sold
Message-ID: <961224161243_270469298@emout02.mail.aol.com>

The following BAs from my list have been spoken for.

Globe King 500A and Ranger to Stan W2ST (New York)
DX-100B parts rig to Mike KB9VU

All other previously listed is available at this time Monday Dec. 23, 1996 17:00 hrs.

Tom Koch - W4UOC
tekoch@aol.com

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996

From: Ed Kleckner <ekleck@kendaco.telebyte.net>
Subject: Re: DeJUR
Message-ID: <Pine.LNX.3.91.961223205946.8059A-100000@kendaco.telebyte.com>

Rhett -- DeJur used to make photographic enlargers (I have one) quite a long time ago. Maybe the voltmeter was used in setting the lamp voltage in an enlarger????

~~~~~  
~ Ed Kleckner, N7YQR      ekleck@kendaco.telebyte.com ~  
~ Hansville, WA 98340    (360) 638-1269                      ~  
~~~~~

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: "Jim Evans:RSE:PK3-1/N85:dtm 223-6277:(508)493-6277 24-Dec-1996 1327"
<j_evans@proxy.ENET.dec.com>
Subject: FS: 30L-1
Message-ID: <9612241831.AA02637@us4rmc.pko.dec.com>

This is being posted for a friend. If interested, contact Ray.

Jim N1HTS

Collins 30L-1 Linear Amplifier in very nice condition for sale. Just installed 4 new 811A tubes. 1 KW input, 3.5 - 30 Mhz.

Asking \$550. Shipping extra, if needed.

Ray, KM1D

(508)841-6195 days
(508)683-2454 evenings/weekends

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: Robert Fowle <hammarlund@jacksonmi.com>
Subject: FS: Vol-1-2-3 conversion manuals like new
Message-ID: <32BF417B.978@jacksonmi.com>

Hello All:
have the following for sale:

CQ Tech Series Surplus Conversion HB including Comrad sets scuffs on

cover...other wise, like new
Surplus Radio Conversion Manual Vol.#'s 1,2, & 3 like new

sell all four of above as one lot \$90 shipped

--

**** Visit my Web Page.....****

=====]-[->

Robert Fowle KC8DBC
1215 Winifred
Jackson, Mich. 49202-1946
Ph. 517-789-6721
E-mail: hammarlund@jacksonmi.com
Web Page: <http://www.jacksonmi.com/hammarlund>

NOW... BOATANCHORS Conference!
talk, buy-sell-trade all in one place!
Moderator: Robert Fowle
at: <http://www.inetnc.com/hamchat/>

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: jcall@sirius.com (Jim Carrington)
Subject: Re: fwd: SP-600 Repainting?
Message-ID: <199612241725.JAA17800@mail1.sirius.com>

>I'll jump on Jeff's questions too... My restoration is abt 90% complete
>electrically and it's time for a paint job. Funny tho, my front panel has
>plenty of chips on the edges from rack mounting and dragging about assorted
>garage floors - but no evidence of a red primer.

>

>To all that hang around the BA reflector: HAPPY HOLIDAYS!!

>

>73 de Bill WF2A

>

Some of the SP600's had a steel front panel instead of aluminum. I'm
guessing but the steel panel may have had a red (Rustoleum ?) primer to help
protect it from the salt air and moisture it would encounter on a navy ship.
Jeff may want to try a magnet on his panel .

73s

Jim Carrington

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: jeffa@ix.netcom.com (Jeff Anderson)
Subject: Re: Fwd: SP-600 Repainting?
Message-ID: <199612241835.KAA13610@dfw-ix3.ix.netcom.com>

You wrote:

>
>>I'll jump on Jeff's questions too... My restoration is abt 90%
>>complete electrically and it's time for a paint job. Funny tho, my
>>front panel has plenty of chips on the edges from rack mounting and
>>dragging about assorted garage floors - but no evidence of a red
>> primer.
>>
>>To all that hang around the BA reflector: HAPPY HOLIDAYS!!
>>
>>73 de Bill WF2A
>>
>
>Some of the SP600's had a steel front panel instead of aluminum. I'm
>guessing but the steel panel may have had a red (Rustoleum ?) primer
>to help protect it from the salt air and moisture it would encounter
>on a navy ship.
>Jeff may want to try a magnet on his panel .
> 73s
> Jim Carrington
>

Just tried the magnet test - it's not magnetic. Hmmm, so why would
there be a primer? By the way, this is an R-274C (SP-600-JX-14).
Perhaps the primer is an engineering change?

73,

- Jeff, WA6AHL

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: johnz@earthlink.net
Subject: Heath 3395 Kc filter
Message-ID: <199612240508.VAA00789@cyprus.it.earthlink.net>

Steve:

Just caught the second of your posts regarding your HW101 filter. About
1972 a friend of mine built a SB-101. After a few years of use it suddenly
went dead. I was asked to help him trace the problem. It came down to the
filter. Shorting across from its input to output terminal the unit came
back to life; not, of course, the way it should be. He ordered a new filter
(fortunately available at the time), which solved this problem. Having no
use for the old one, he gave it to me. I was able to unsolder the top of
the can revealing an internal PC board loaded with 6 or 7 crystals and a few
transformers. A few minutes of inspection revealed that a crystal had one

of its leads not soldered to the pc pad! Repairing this junction made the filter operational and, in fact, I used it in a homebuilt receiver several years later. Didn't even bother putting the cover back on. If the filter used in your HW 101 is the same type I would encourage you to go ahead and open it up. You could be suprised, as I was. The crystals, themselves, were of the hemetically sealed HC6/U type so the outer shell should not harm them.

John Zitzelberger W6GL
Thousand Oaks,CA

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: bowes@ibm.net
Subject: Hickok "cardmatic" AN/USM 118B info WTD
Message-ID: <9612240723.AA0058@slip166-72-135-97.mi.us.ibm.net>

With the holiday spirit pulsing through his veins, a friend of mine has given me a Hickok AN/USM 118B tube tester, with the perfunctory "just git it outa here" blessing. This has got to be one of the all time greatest "boffo deluxe" tube testers (with a possible nod to the TV-2) ever made. Apparently the civilian model went by the name of a "cardmatic" or some such thing. The whole thing is based upon a punch card system by which one inserts the tube to be tested into the appropriate socket and then merely inserts the corresponding card in order to establish the testing parameters. I have seen a couple of late RCA tube testers which had the same basic operating principle but certainly lacked the panache of this military model.

I got a copy of the manual with the thing which indicates that there are supposed to be some kind of calibration punch cards with the tester. My question is, does anybody know of a source for cards for this thing, or does anybody out there in BA land have a "full" set of cards and would be willing to Xerox a few copies of the ones that I am missing for me?

As things stand now, I have a pretty good assortment of cards for the unit but am missing some of the ones that I use regularly (6BA6, 6146, 12AY7, 6360, etc.). I suppose that given enough time I could "crack the code" and devise my own cards for the thing, but it would sure be nice if I could raise the bridge instead of lowering the water.

Tom Bowes
KK8M

=====

HEY! Anybody got a spare DM-28Q?! OK, I'll settle for a National speaker to go with my HRO-50T1!

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: Re: HOHOHOHOHOHOHO!!! Collins 32v-3 for xmas!
Message-ID: <32BF59D1.58EB@iglou.com>

joe d spanker wrote:

>
> Merry Xmas All!!!
>
> I have a request for all you Collins Gurus out here! I've found a
> 32V-3 in reasonable condition, Not real beat up but does show its age,
> Now I'm not New to BA's but This will be my first Collins purchase! It
> is supposed to work 100%?? Asking Price is \$200.00 is this a reasonable
> price? It seems to be, but as stated not real well informed when it
> comes to Collins! What are strengths/weaknesses of this TX? any
> cautions or concerns? I understand from the seller that it was in use
> till about 1 month ago. Any Known modifications or improvements to
> consider on this TX? Any restoration Tips?
>
> Thanks and again Happy Holidays!!!
>
> Also, I have 3 requests for the Ultra Modulation system info, Will get
> the Article to everyone right after Xmas!!
>
> 73, HOHOHOTOYALL may the red suited gent bring you the long sought after
> BA of your Dreams!

I recently sold a nice one for \$750. It's hard to work on. Kinda built like a Rubics Cube if you remember those. Excellent piece of gear though. 73

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: jlyle@netcom.com (Jim Lyle)
Subject: HP-410B RF Probe
Message-ID: <199612241916.LAA08143@netcom3.netcom.com>

I have an HP410B with an RF probe, but the teensy tube in the probe tip is gone. What kind of tube does it take, and does somebody have a reference/diagram that shows how it all goes together?

--

Jim Lyle

jlyle@netcom.COM

<http://www.troubadortech.com/jlyle/>

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: Michael Crestohl <mc@shore.net>
Subject: Info wanted on Collins 30S-1 amplifier....
Message-ID: <199612241204.HAA12782@northshore.shore.net>

Hello Everyone.....

I have an opportunity to pick up a Collins station including a 30S-1 amplifier. From what I know of this equipment it is winged emblem and pretty early manufacture. Is there anything I should pay particular attention to in looking over the 30S-1? Any retrofits or other factory mods or updates? I have never owned a 30S-1 amp and would very much appreciate any help, advice and assistance on buying this one.

73 and best wishes for the Holiday Season to all!

-/-Michael Crestohl W1RC -----mc@shore.net-----

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: wd4mgm@ix.netcom.com (CARL WHITAKER)
Subject: Re: Info wanted on Collins 30S-1 amplifier....
Message-ID: <199612241546.HAA21840@dfw-ix7.ix.netcom.com>

You wrote:

>From what I know of this equipment it is winged emblem and
>pretty early manufacture.

There is basically no difference between "winged" or "round" models.

>Is there anything I should pay particular attention to in looking over
the 30S-1?

A few items are getting hard to find if they need to be replaced, such

as the plate relay and especially the thermal air flow switch that is suspended over the tube. It is quite common for some bozo to try to "mechanically adjust" those little jewels and end up doing damage beyond repair.

>Any retrofits or other factory mods or updates?

I don't have my files in front of me here but I believe there were only (3) or (4) service bulletins issued for the 30S-1. One involved a change in the value of grid current metering and removal of a grid overcurrent relay protection circuit. Another corrected intermittent plate overload protection dropout. These were very early changes that were incorporated in production units fairly early on. Another somewhat later mod changed the tube (12AL5 I believe) ALC circuit to a solly state rectifier. There might have been one more (minor) that dealt with operating parameters of the 4CX1000.

They are beautiful looking and smooth operating amps. My old ser.# 122 looks and plays like new.

Best wishes to all for a happy, safe, and very BA Holiday season!!

Carl Whitaker
WD4MGM

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: "Christopher A. Bowne" <radiobwn@q.continuum.net>
Subject: It Comes Upon The Midwatch Clear
Message-ID: <32981AAF.2C4@q.continuum.net>

It comes upon the midwatch clear
The glorious songs of old
Wonderous signals from far and near
>From keys that shine like gold.

Peace on the Earth, good will toward men
Throughout the ether rings
Wishing all healh and happiness
in what the Season brings.

>From o'er the earth the message comes
>From ships, and air, and shore
Spreading good will and good cheer
The melodious CW soars.

To every OM everywhere, and every YL too,
We wish you Merry Christmas
And 73 in the year a-new.

Merry Christmas to all, and to all a good night!

Chris Bowne, AJ1G
Stonington, CT
radiobwn@q.continuum.net
AMI No. 211

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: Peter Ferrand <petef@sprynet.com>
Subject: Re: Knobs
Message-ID: <3.0.32.19961224081926.00b865ec@m3.sprynet.com>

At 05:52 PM 12/23/96 -0600, you wrote:

>Ok, so I'm nuts. But I need a knob for my first rig, a Globe HG-303.
>It's the "function" or "meter" switch knob (they are identical and I
>have one of them. Now I don't expect people who collect things that
>have real value to even know what one looks like, but you may have this
>little treasure in you junk box somewhere. It's light gray and is in
>the shape of a cylinder 3/8" wide and 5/8" long. The "shaft" it fits
>on is a rectangular "blade" which is 3/16" high and 1/16" wide.
>The receiving channel in the back of the knob is in the shape of a
>cross so it can accept the bladelike shaft at 90 degree intervals.
>Season's Greetings (if appropriate to you) & 73. KN3I

HO HO HO....

I need one of those too. It's for the HG-303's matching VFO, a V-10 which
has the same knob for the function switch.

Even some light grey plastic rod would work, we could cut it and polish it,
I suppose, only the concave top would be tough. I've been looking for one
of those knobs for a year.

My HG-303 has its knobs, but my first one years ago didn't.

Merry Christmas es gl. I'm kinda glad this is all we have to wish for.
-Pete
WB2QLL
petef@sprynet.com

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: Ho4bart@aol.com
Subject: Lakeshore Bandmaster, request for brief data
Message-ID: <961224043812_875821830@emout19.mail.aol.com>

a friend has this tx. i think the model is bandmaster 2 ??? (i last saw
it last
august) could someone kindly tell me:
1- years built 2- this must be phasing-type ssb, yes?
3- rated power 4- what would a ham at that time be likely to be
using as a "matching" rcvr (i.e. roughly approximate level as to
orig cost & technology level)
i thot this was really a swell looking xmtr & i may try to do
a trade this summer. looks like great fun for the classic ssb net,
lots of knobs to tweak! tnx! de hue miller

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: "Lawrence R. Ware" <lrware@pipeline.com>
Subject: Larry's days of Christmas
Message-ID: <3.0.16.19961223210915.31f7744e@pop.pipeline.com>

Good Evening folks,
First of all Happy Holidays to each of you, may the new year bring
you only good things...

Unfortunately, I have to suspend the remaining free giveaways for
the time being... :-(
The last two shipments will go out tomorrow, so everybody who was
promised a "stocking stuffer" will get it.

Everyone who participated enjoyed them, and I got some great stories
out of it, as well as a lot of fun...
It seems the rules I made up one day as a joke have caught on with
some of our fellow members, I'm still flattered everytime someone
quotes "Rules of Ware." I'm also very glad to see a lot of people still
consider this hobby *for fun* instead of taking it too serious.

Sometime after the start of the new year I'll be back with:
"Larry's Spring Cleaning Specials," part one through whatever...
Until then: Enjoy your radios while you can, they don't make em
like that anymore...

-Larry Ware
lrware@pipeline.com

Larry's Home for Wayward Test Equipment & Old Radios (tm)
Let your test equipment retire in sunny central Florida.
Intensive Care, Private Bench Space, Frequent Use,
Factory trained HP, Tek. & Fluke Surgeon on staff.
Good Home Guaranteed or double your junk back!
lrware@pipeline.com - Orlando, Florida -

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: looking for HRO coil parts
Message-ID: <Pine.ULT.3.95.961224135727.18206A-1000000@admin.aurora.edu>

The restoration of the Australian AMR-101 HRO look-a-like is coming along nicely. Should have a manual soon. Meanwhile it is working just fine. Next project will be deciding whether to repair or replace the front panel when a substitute xtal filter is installed.

The latest project was to restore the 480 to 1000 KC coil unit. A previous owner had removed all the wire from the osc coil, probably in preparation of making a different frequency unit. (He had bandspreaded most of the other coils sets for the ham bands, which I restored to original).

What I now need are two of the rectangular metal frames that hold the charts on the front of the coil set. The HRO ones are close enough to work. If you have any extras, please let me know.

Thanks & season's greetings to all you BA folks

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: djhutch@concentric.net
Subject: Mail
Message-ID: <32BFDFFB.761B@concentric.net>

Please reset mail delivery

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: Richard Post <POST@ouvaxa.cats.ohiou.edu>

Subject: RE: Meissner ANALYST

Message-ID: <A4676ZWQCGJX3K*/R=OUVAXA/R=A1/U=POST/@MHS>

Steve N8KWV et al,

You are correct in describing the Meissner as a four in one (or more correctly 5 in 1) test instrument for radio repair. Love those Christmas color green eye tubes and bright red pointer knobs! This thing is a BA lovers idea of a Christmas gift. You can find a schematic and a ten page instruction set on how to use the Analyst in the Meissner "How to Build Instruction Manual" . The instructions are in both my 1943 and 1953 editions. There are still lots of those instruction/ build it manuals around. I think I remember a reprint as well for sale on the shelf of the Museum of Radio and Technology's gift shop. The RF-IF channel is a TRF tuner tunable from 95 to 1700 kHz. I have fed the input with a piece of wire for an antenna, fed the output to the input of this thing's audio channel, and connected an output transformer and speaker to the output of its audio channel. The result is a working TRF radio. With that sort of gain, you can signal trace about any radio with an IF in the 95 to 1700 range.

The earliest ads I found were April 1940 Radio News back cover. The unit was also sold after the war for a short time. The RCA Rider Chanalyst is a very similar piece. The Meissner was first introduced as a kit at a cost of \$60. I believe the Meissner to be a Rider clone. There were at least two color schemes. Mine has a very dark gray color on the case and pointer markings with a much lighter gray font panel surround. The 1946 ads show the opposite, light pointer markings with a very dark front panel. The ads are in black and white so I cannot be sure of the exact color.

Gotchas on this one include the capacitor feeding the audio output jack. If it is leaky (VERY likely) there will be DC on the tip of the phone plug. Other problems I encountered in mine were more likely to be resistors off value than capacitors, especially in the vacuum tube voltmeter section (the fifth "channel").

This is definitely one of my more prized early test equipment items and is well worth restoring. I love it when a piece of test equipment can play broadcast stations all by itself!

73 de Rich KB8TAD <rpost1@ohiou.edu>

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996

From: Chris Demeroukas <radios@accessusa.com>

Subject: Re: Meissner ANALYST

Message-ID: <327F99C4.5593@accessusa.com>

Richard Post wrote:

>

> Steve N8KWW et al,
>
> You are correct in describing the Meissner as a four in one (or more
> correctly 5 in 1) test instrument for radio repair. Love those Christmas
> color green eye tubes and bright red pointer knobs! This thing is a BA
> lovers idea of a Christmas gift. You can find a schematic and a ten page
> instruction set on how to use the Analyst in the Meissner "How to Build
> Instruction Manual" . The instructions are in both my 1943 and 1953
> editions. There are still lots of those instruction/ build it manuals
> around. I think I remember a reprint as well for sale on the shelf of the
> Museum of Radio and Technology's gift shop. The RF-IF channel is a TRF
> tuner tunable from 95 to 1700 kHz. I have fed the input with a piece of
> wire for an antenna, fed the output to the input of this thing's audio
> channel, and connected an output transformer and speaker to the output of
> its audio channel. The result is a working TRF radio. With that sort of
> gain, you can signal trace about any radio with an IF in the 95 to 1700
> range.
> The earliest ads I found were April 1940 Radio News back cover. The unit
> was also sold after the war for a short time. The RCA Rider Chanalyst is a
> very similar piece. The Meissner was first introduced as a kit at a cost
> of \$60. I believe the Meissner to be a Rider clone. There were at least
> two color schemes. Mine has a very dark gray color on the case and pointer
> markings with a much lighter gray font panel surround. The 1946 ads show
> the opposite, light pointer markings with a very dark front panel. The ads
> are in black and white so I cannot be sure of the exact color.
> Gotchas on this one include the capacitor feeding the audio output jack.
> If it is leaky (VERY likely) there will be DC on the tip of the phone plug.
> Other problems I encountered in mine were more likely to be resistors off
> value than capacitors, especially in the vacuum tube voltmeter section (the
> fifth "channel".
> This is definitely one of my more prized early test equipment items and is
> well worth restoring. I love it when a piece of test equipment can play
> broadcast stations all by itself!
>
> 73 de Rich KB8TAD <rpost1@ohiou.edu>

In a similar vein is the Hickok Indicating Traceometer. What's nice
about this model is that instead of various blinking lights, this
analyzer has meters for the various measurements that can be taken.
Especially useful to me is the BC band microvoltage readings obtainable
with this machine.

Chris

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: "D.D. Todd" <dube3@n-link.com>
Subject: Merry Christmas!

Message-ID: <32BF94CD.433A@n-link.com>

And a Happy New Year!

--

73,

Dube Todd

K4DWW

dube3@n-link.com

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996

From: Sandy W5TVW <ebjr@worldnet.att.net>

Subject: Merry Christmas!

Message-ID: <19961224162238.AAA20991@LOCALNAME>

Greetings "Boatanchorites"!

Just a note to all.....I have enjoyed the association with the
august group here
this year! Wishing all of you a very Merry Christmas and a Happy New Year.
(As we
used to say it back in the late 50's: "Have a Cool Yule and a Frantic First!")
The best of "Boat Anchoring" in 1997!

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

Looking for: ELMAC PMR-7/PMR-12, Hallicrafters SR-75, 860 tubes

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996

From: Matt Jodziewicz <mattj@orausea.com>

Subject: Merry Christmas/Happy New Year/Thanks

Message-ID: <01BBF19A.B5B4C040@mattj.oraus.com>

The title just about says it all, except thanks to all the guys
on the list for their help and friendship over the past year.

Hope to see some of you at TRW this weekend.

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996

From: BEN NOCK <106312.1035@compuserve.com>

Subject: Merry hotbottles to you all
Message-ID: <199612241405_MC1-DC3-F691@compuserve.com>

To all the members at this joyous time,
a very merry xmas and a safe and happy 1997.

Ben G4BXD
MILITARY WIRELESS IN THE MIDLANDS

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: "Cliff Blakey" <Cliff.Blakey@dns.cyberlink.bc.ca>
Subject: misc stuff for sale
Message-ID: <199612241712.KAA22873@dns.cyberlink.bc.ca>

Hello BA'ers.
I have odds and ends of stuff to clear out. To cut bandwidth on the list, I have put it on my web page. I have been carrying this stuff around for too many years so I am trying to thin out my excess. I have an antique radio repair business but this is apart from the business.
My web page is:
<http://www.cyberlink.bc.ca/~cblakey/>
As I come across more things, I will put them on my site.
Thank you in advance for your consideration
73's and a merry Christmas to all.
Cliff

Western Wireless Company:
112C Van Horne St., "5th Ave. Plaza"
(Box 398 Cranbrook, B.C. V1C 4H9 Canada)
Tel/Fax 250-489-5874
Cliff Blakey
VE7WWC
cblakey@cyberlink.bc.ca
Please visit our "Antique Radio Store"
at:
<http://www.cyberlink.bc.ca/~cblakey/>
Preserving Yesterday's Wireless Heritage.

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: vancleef@netcom.com (Henry van Cleef)
Subject: Mission accomplished and Merry Christmas
Message-ID: <199612241932.MAA23450@netcom14.netcom.com>

Some of the folks here knew from my E-mails to them that my sisters

and I were in Tucson last week, holding a memorial service for my mother, who died on Dec. 15.

Following all of this, we cleaned out her place, and filled two large (GMC) vans and my pickup, and came back to Denver. It was something of an eventful trip, because we snowshoed the vans and pickup over 100 miles of ice on the way down, and I got another 50 miles of ice on the way back. One of the vans blew its transmission, and my pickup ate a water pump, so there was a lot of car fixing done (by others) while we were down there. Fortunately, we did not get let down on the road, so got there OK.

Can't report on any really old electronics that showed up this time. My pickup got my old AST-286 computer (only 10 years old---built to last) and an IFC Sony ghetto blaster, and four bookcases (for holding old engineering texts, etc.). So I can't say much about old electronics on this expedition. The "project S-38" and "project RME-69" waited patiently for my return. Tonight there will be a small gathering of the clan for those Christian members of the family who observe the Christmas holiday.

My best wishes to all on the list at this holiday season, and for a happy and prosperous new year to come.

Hank

--

=====

Hank van Cleef

E-mail vancleef@netcom.com or vancleef@tmn.com

=====

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: vancleef@netcom.com (Henry van Cleef)
Subject: Re: More neat stuff in stash
Message-ID: <199612240834.BAA03493@netcom11.netcom.com>

As gpewitt@execpc.com discourses

>

> I found a Tek 585A scope with the following plug-ins:

> 53/54G

> 53/54K

> AN 1841/USM 2 ea.

> and

>

> a 1L30 Spectrum analyzer 925 M to 10.5 Gig

>

> all look very good.
> Any interest?
>
> What would be a fair price for this rig?
>

This "rig" is an oranges and apples deal. All of the plugins you have listed work in 530-540 series, and will not work in a 585 without an 81 adapter. Sure, they look just fine---except that the Blue Ribbon connector at the back is upside down from that in the scope. But electrically they are entirely different.

The correct plugins for 580-series are the 82 dual-trace, most common, or the 84 single-trace, less common, and half an 82. The 80-P80 (cathode follower probe) also work, but if you can find one, make sure you not only get the probe but the attenuator heads as well. The 82 is the plugin of choice. The G and K plugins you list are pre-1960, when Tek dropped the "53/54" prefix. I personally prefer some of these older units, and they are certainly well built. But maximum performance with an 81 with the K is around 30-32 Mhz (10-12 nsec risetime), hardly better than with a 545.

Unless an 81, 81A, or 82 or 84 are included in the deal, nobody can vouch for the scope's condition and you can't plug it in and check it out, so I wouldn't give much money for it. I can't recall the exact number, but I did sell a clean working calibrated RM585A (same scope in rack mount) with 82, 81A, and threw in a passel of letter plug-ins for around \$150 last summer. But I can tell you that I put 40 hours into the scope to get it to work, and a bunch more into the 82 and 81A, and got about \$2 an hour for my work.

Unless you are into fixing scopes in a serious way, I'd keep my money in my wallet and look for a nice working 545B or 547 with a 1A1. Both will give you six full centimeters of display, and the 547 will give you 50 solid Mhz. performance at the probe tip, while a 585A/82/P6008 will give you 67---and only four centimeters of display.

--

=====
Hank van Cleef
E-mail vancleef@netcom.com or vancleef@tmn.com
=====

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: BEN NOCK <106312.1035@compuserve.com>
Subject: PRC - 5 wanted
Message-ID: <199612241406_MC1-DC3-F694@compuserve.com>

I would be interested in buying or swapping for a decent PRC-5 set.

Ben G4BXD

MILITARY WIRELESS IN THE MIDLANDS
HOME OF WWII 39-45

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: Hans Jense <jense@eos.arc.nasa.gov>
Subject: Prettige feestdagen!
Message-ID: <199612241936.LAA25826@eos.arc.nasa.gov>

The subject line says: "Happy Holidays" in Dutch, or as we say more elaborately in Holland:

Prettige Kerstdagen en Gelukkig Nieuwjaar (Merry Christmas and a Happy New Year).

Note as to pronunciation: all g's should be of the guttural variety, and sound as when one clears one's throat. A good check for correct pronunciation is when the screen of you computer becomes slightly moist!

-- Hans

```
=====
Dr. G. J. Jense          | Command & Control and Simulation Division
Senior Scientist         | TNO Physics and Electronics Laboratory
Virtual Environments     | The Hague, The Netherlands
-----
```

Currently on leave at:

W A S A

Human and Systems Technology Branch
NASA Ames Research Center
Code AFH, Mail Stop 262-2
Moffett Field, CA 94035-1000

Phone: (415) 604-1877
Fax: (415) 604-3729
Email: jense@eos.arc.nasa.gov

=====

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: "Lon W. Cottingham" <k5jv@swwweb.net>
Subject: R-390 Audio
Message-ID: <199612241529.JAA21753@uro.theporch.com>

To everyone,

Please accept my apology for my last posting. I goofed and toggled on the wrong button. Instead of saving my first draft for later editing, I sent it out to all of you in a very, very untidy fashion. Again I apologize. A corrected posting will follow soon.

73 de Lon W. Cottingham, K5JV
1110 Golden Bear Ln.
Kingwood, TX 77339
713-358-4207 713-358-4234 FAX

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: "Lon W. Cottingham" <k5jv@swwweb.net>
Subject: R-390A audio
Message-ID: <199612241522.JAA21651@uro.theporch.com>

Sasons greetings to all,

I normally do not get involved in these discussions, but will break my rule this time and share my experience on the subject.

Local audio output from the R-390A was never intended to be used for anything but casual listening or finding a signal to be processed through the line audio output. Look at the specs. There simply is not much audio quality there. However, if properly matched (a condition one seldom finds tday) and fed into a decent speaker system (I do mean system), the local audio from a un-modified R-390A is usually quite acceptable for communications use and not all that bad for broadcast monitoring. The distortion level is real and the better speaker system you hook it to, to more you notice it.

Stagger tuning the IF of the R-390A will give noticable improvement to the original audio. To make this improvement worthwhile, proper matching to good speaker system is necessary. But, all the stagger tuning in the world will not allow the local output stage to pass frequencies that are designed out of its range even using the 16 Khz IF responce. Also, the very high distortion level is still there.

The best answer that I have found is the local audio mod by KH0HFD, Bill Kleranomos. Spend a couple hours doing this this mod and you will be thrilled if you really like to good sounding audio. Remember that a good speaker system is one of the key elements. You will never take the IF below 16 Khz for broadcast listening and, for communications, the 8Khz or 4 Khz position will give ear pleasing, non-fatigueing listening pleasure. The distortion level is so low from this mod that you turn down the local audio gain insteat of turning it up as you do with standart audio.

I have just recently had the pleasure of returning several R-725 receivers to service. For those of you who are not farmiliar with this receiver, it is simply an R-390A with non mechanical filter IF--that is all (and the IF is still on 455 Khz not 500 Khz). This receiver is the answer for those who, for what ever reason, will not accept mechanical filters (I think the condition is hormonal). I Kleronomos's modified autio panel (yes it is plug-and-play) is several of these receivers. I even demoed one of them to a gentlemen when he picken up his R-725. We first listened to a local pulse-modulated broadcast station through the local audio chanel into an unmatched Sansui SP-3500 speaker system. The results were the usual mushy, volume almost up full, not-to-good but not-to-bad, R-390A audio. The customer was pleased. I then inserted a matching transformer beweeen the receiver and the speaker system. First the local audio gain had to be truned down to about one half. The audio response was much more pleasing. The distortion was not so noticeable as the gain was only at 50%. Next, I swapped the audio pannels from the original unmodified to the Kleronomos modified unit and removed the matching transformer (this mod has low impedance output). The customers jaw almost hit he floor when the receiver came back on line. The local audio gain had to be truned down to appromixtely 10%. We happened to be listening to a country station that was playing a piece with lots of string base for lows and steel gatars for highs. All the customer said was "Where do I get one of these--can I do it myself".

73 de Lon W. Cottingham, K5JV
1110 Golden Bear Ln.
Kingwood, TX 77339
713-358-4207 713-358-4234 FAX

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: bowes@ibm.net
Subject: Re: R-390A audio
Message-ID: <9612250024.AA0073@localhost>

>The customers jaw almost hit the floor when the receiver came back on line. The
~>local audio gain had to be turned down to approximately 10%. We happened to be
~>listening to a country station that was playing a piece with lots of string base
~>for lows and steel guitars for highs. All the customer said was "Where do I get
~>one of these--can I do it myself".

~I have to agree with Lon that the 6360-Kleronomos mod is THE way to go for anybody
~who wants good audio from a 390a or a 725. My experience was largely the same. I had
~purchased a spare audio module for my 390a in anticipation of doing the mod. Eight
~months later I finally got up the ambition to do the mod and try it out in my 390a.
~WWWOOOWWW, what a difference! A friend of mine was ready to trade off his R390a in
~favor a National or something else with some "real audio", so I took my old module
~and did the mod for him too.

I took the module over to his place on a Friday eve and we plugged it into his rig.
~Come Saturday morning, he was still raving about it to all the guys on the Saturday
~AM BA roundtable. Keep in mind that this was coming from a guy that grew up
~listening to McIntosh hi-fi gear and is notoriously critical when it comes to BA
~audio.

Another ham came over to his shack on Sunday afternoon while I was there and asked
~how we managed to plug a CD player into the R390 audio section. Once again, a jaw
~hit the floor when we told him that he was listening to an AM broadcast station!

Look folks, with that mod you can forget about stagger tuning the IF to get the
~extra frequency response. You can say goodbye to the days of straining to hear the
~radio every time somebody in the next room coughs. This is the REAL solution to the
~problem, ala the mods in the days of yore that were MEANT to do something positive
~to correct a design deficiency in a radio.

There is one caveat that anyone attempting to do this mod should consider. It would

~be extremely easy to do a very "cobbie" looking mod based solely on looking at the
~Kleronomos schematic and then firing up the soldering iron. Personally, I spent
~about 8-12 hours doing the research as to how best maintain the stock look of the
~original R390a audio strip by reutilizing the wiring harness as much as possible.
~After having done five of these modules I have refined it to the point where it
is
~difficult for those who are not familiar with the original module's layout to
tell
~where the changes have been made. No brag, just fact. Do the homework first, then
~take the "smoke test".

There is one other thought that I have about the mod, and that is that 6360A's are
~not the easiest tube to scrounge from a junk box at your average swap. At \$7.90
each
~from AES they are not terribly expensive, but let me remind you that 211's used
to
~sell for \$.95 each until the demand outstripped the supply. I am contemplating
doing
~a variant of the mod which will use 6AQ5's in push-pull with no changes to the
~socket configurations. The line audio tube will be moved to the 0A2 spot with a
~150V, 5W zener used in place of the regulator tube. This should allow me to use a
~tube (OK tubes) that is still cheap, plentiful, and available. Any thoughts on
this?

Tom Bowes
KK8M

=====

HEY! Anybody got a spare DM-28Q?! OK, I'll settle for a National

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: Tom Norris <badger@telalink.net>
Subject: R-390A Stagger-Tune IF procedure
Message-ID: <3.0.1.32.19961223201825.0068741c@telalink.net>

Stagger tuning will give you a wider bandwidth to the IF, and is desirable if
the RX is used much for broadcast AM and such. Straight tuning seems to
cut the highs quite a bit, though I have done no measurements to see just
how much.... So here it is.

>From the manual Page 112, 113,114.
Simplified version ---

Setup:
Disconnect P-114 from J-514 and P-213 from J-513.

Connect P-114 to J-513. This connects the IF out BNC to the IF input for injecting IF freq signal for tuning. Connect a VOM to Diode Load connection on on back. Set FUNCTION switch to MGC and BANDWIDTH to 8 KC for this adjustment.

Inject signal as noted and adjust slug as noted below: This should be done in this order. Adjust for peak signal at diode load -- but keep injection level such that the signal reads around minus 3 to minus 7 volts. Don't inject too much signal for this adjustment.

Both top and bottom slugs are accessable from the top of the cans.

Signal Freq	Adjust
1 -- 467 KC	T-501, top slug & T-502 bottom slug
2-- 443KC	T-501 bottom slug
3-- 455KC	T-503 bottom slug, T-503 top slug

And by the way,*don't* touch Z501 (L-303/C520) is bad juju.... Havent tied using a sweep generator or tracking generator/spectrum analyser for this adjustment, though the latter would be interesting to try.

If you wish to go further and make sure the AGC peak matches your new IF alignment, move VOM to AGC teminal 4 on rear of reciever. Turn FUNCTION switch to AGC.

Tune signal generator to 455KC and adjust level to around minus 1 to minus 2 volts on meter. Adjust Z-503 (single slug) for max agc voltage. (*NOT* L-503)

And one more item to complete the IF alignment -

Put all IF cables back to their original connections.

Set Function Switch to MGC, move meter back to DIODE LOAD as in first procedure.
set BANDWIDTH to 2.

Inject 455KC at E-211 on RF deck (3rd mixer) through a .001 cap

Adjust level so meter reads around minus 3 to minus 7 volts.

Adjust T-208 for max reading. The peak will be broad and not too high, so look for it.

That is about it -- that is how I have done it. Darned close to what the manual actually says.....

Visit my web site with info on military communications gear:
[HTTP://telalink.net/~badger/millist/index.html](http://telalink.net/~badger/millist/index.html)

"I am "begging" for pictures of equipment, and descriptions of gear that may not be on the list. Please email me if you have either."

Tom Norris KA4RKT
badger@telalink.net Nashville, Tennessee, USA

Eagles may soar free and proud, but weasels
never get sucked into jet engines.

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: John Kolb <jlkolb@cts.com>
Subject: R390A IF filter circuits, stagger tuning
Message-ID: <Pine.SCO.3.91.961223225852.28548A-100000@sd.cts.com>

On Mon, 23 Dec 1996, Phil Mills wrote:

> I'm in the process of going through and checking out and aligning
> the IF deck from my R390A, primarily because the BFO was off frequency
> by about 2 or 3 kc and the mechanical filters did not appear to have
> much affect. I pulled the cover from the mechanical filters and
> noted that the 8 and 16kc filters are Collins but that
> the 2 and 4 kc filters are "brand-x"...some outfit I've never heard
> of before. So somewhere along the line, 2 of these filters have
> been replaced, and, apparently in that process, all the mica caps
> on top of the filters were changed to 15 pf even though the schematic

R-390 historians will no doubt correct me on details, but I believe one of the more recent R-390A runs was built with Clevite or Vernatron ceramic filters instead of Collins mechanicals. If that is indeed the filters that you have, it's possible that 15 pF would be the correct value for those filters, but not the 8 and 16 kHz. More likely, the IF section ran into an idiot :)

Change 4 to manual TM11-256A is a 6 page document that details the corrections to the manual to cover the change from fixed values of caps only across the filters to 51 or 82 pF caps in parallel with trimmers. It also describes stagger tuning the filters. Copies available for an SASE - there, that will delay things till I get back to work and a copy machine :)

Briefly to stagger tune, replace the IF transformer cover with one with a hole for accessing the adjustable slug of the transformer to be tweaked. Set selectivity to 16 kHz.

Step	modified cover on	sig gen freq	adjust
1	T501, 502	467 kc	T501 sec (top) T502 pri (bottom)
2	T501, 502	443 kc	T501 pti (bottom) T502 sec (top)
3	T503	455 kc	T503 pri (bottom) T503 sec (top)

Happy Holidays to everyone on the boatanchors list.

John Kolb jlkolb@cts.com KK6IL
540 S. Kalbaugh St.
Ramona CA 92065-3135

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: Conard Murray <ws4s@InfoAve.Net>
Subject: Re: R390A IF filter circuits, stagger tuning
Message-ID: <2.2.32.19961224144021.0071794c@infoave.net>

>R-390 historians will no doubt correct me on details, but I believe
>one of the more recent R-390A runs was built with Clevite or
>Vernatron ceramic filters instead of Collins mechanicals. If that is
>indeed the filters that you have, it's possible that 15 pF would be
>the correct value for those filters, but not the 8 and 16 kHz. More
>likely, the IF section ran into an idiot :)

I am no historian, but my '390A has the Clevite ceramic filters. They are much smaller in diameter than the mechanical filters and seem to work pretty well. There are no trimmers on top of the filters either.
73 de COnard, ws4s

.-.-.-.-.-. .
. Conard Murray WS4S Glowbugs listowner .
. 217 Dyer Avenue ws4s@infoave.net .
. Cookeville, TN 38501 615-526-4093 .
. <>< Wise men still seek Him <>< .
. -.-.-.-.-. .

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: billo@nti.net (Bill Wilson)
Subject: RE; Need info on BC-669
Message-ID: <19961224031606368.AAA210@LOCALNAME>

Greetings and Merry Christmas,

I went to Huntsville today and picked up the BC-669....The model is the BC-669-B and the power supply is PE-110-D. It is a bit dirty but should clean up nice. The units seem complete but the crystals are missing. It looks like the previous owner installed a mic plug and a plug for PTT (a lamp switch on a cord), one little cover is missing that hides two recessed knobs, all else seems to be there. The cost from the thrift store on all this stuff was \$30 or \$10 a section...

Thanks to all the replies on this radio I got a few days ago.

Seen in Huntsville today... a mint BC-325-C, **THAT** is a boatachor!

Merry Christmas to the list,

Bill
AC4LC
Jacksonville, Al.

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: Tom Taylor <ttaylor@Adobe.COM>
Subject: Recognize these items?
Message-ID: <v03007800aee616c5a057@[144.7.22.31]>

I have two items that came with an old rusty DX-100 that I picked up.
I'm hoping that someone has more information (schematic?) about these items.

The first item is obviously a power supply:

- built by Northern Radio Company Incorporated, New York, NY.
- Power Supply Type 105, Model 4B, Serial 1697

- Volts 110-220 Phase 1 Cycles 50-60
- The unit is built for a rack.
- The front panel has two fuses, one labelled, "Oven" and the other, "Keyer"
- The front panel has a toggle power switch and a power indicator light.
- Inside there are four tubes: 6X5GT, 5U4G, VR105, VR75, 3 tall Cornell Dublier capacitors, 4 mfd 600 vdc, an eight port terminal block, two chokes and a power transformer.

The second item looks like a rack mount exciter that was sawed in half!

- The front panel has:
 - PA Plate Current meter 0-50 ma
 - Mixer dial with dial lock, 1.75-4.5 mcs
 - Output dial with dial lock, 1.75-4.5 mcs
 - the numbers "1694" is stamped on the front
- There are four tubes: V107-6SN7, V104-6SA7, V105-6SA7, V106-2E26
- The rear panel has:
 - J104-"Monitor" coax connector
 - Switch "INPUT F.S. FAX"
 - S107 switch "Keying Negative/Positive"
 - J103-"RF Output" coax connector
 - 8 pin Jones power plug
 - S105-"Shaper" switch

Merry Christmas!

Tom n7tm

Tom Taylor

ttaylor@adobe.com

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996

From: Laird_Tom_N@hpmail1.90.deere.com

Subject: S-38B hum fixed

Message-ID: <H00005a00479b047@MHS>

A friend of mine asked me to fix a HUM problem in a Halli S-38B. (Hank inspired me with his comments in messing with cheap radios). Should be easy, right! Not so, Someone had tried before me and inserted a 200uf on top of the first 60uf section, hum was still there. Well, I'll just install a new four section Electro and that will fix it, again no dice. OK, OK, check to toobs dummy.....ah! a shorted 50L6....replace 50L6, guess what, hum still there. Guess I'll have to start replacing the wax paper caps, finished that...powered up and HUM is still there, (AM I THE ONLY ONE THAT RUN INTO THESE TOUGH ONES???) OK, get serious Tom. Out comes the Tek. scope, disconnected the coupling cap between the 1st

and second AF, ah, no hum! hooked the scope to the coupling cap on the plate of the first AF and I see the AC hum (noticed I stayed away from saying 60 cycle or 120 cycle), well the only thing I see in the way was the Sprague capacitor network, so I pulled it and soldered in all discrete componets. Power it up and hum was almost gone, but then came back at the same level. OK, time for a breather. Got on 3885kc for a chat with friend W9UD and was telling him my woes, he says, did you check the tube socket rivets? Especially the ones that have grounding eyelets on them! So with the radio powered up and a BIG screwdriver, I start with the 1st AF socket, wedged the screwdriver between the socket and chassis and the HUM disappears. Soldered a ground wire from the eyelet and the chassis. Problem fixed!!! God, I'm glad I don't do this for a living! Hope this helps someone else, you ole timers may know this already.

Merry Christmas, Tom Laird WC9M
TL39597@deere.com

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: vancleef@netcom.com (Henry van Cleef)
Subject: Re: S-38B hum fixed
Message-ID: <199612241857.LAA20574@netcom14.netcom.com>

As Laird_Tom_N@hpmail1.90.deere.com discourses

>

> A friend of mine asked me to fix a HUM problem in a Halli S-38B. (Hank
> inspired me with his comments in messing with cheap radios). Should be
> easy, right! Not so,
(details trimmed out)

> (AM I THE ONLY ONE THAT RUN INTO THESE TOUGH ONES????)

Naww. When I was teaching in Tektronix Field Training, we used to look for "dogs" from production to try out our students on. We ended up with quite a stash of components with bizarre defects. Anybody can fix the easy ones. It's the dogs that really test your skill, and there is nothing more satisfying than finding the problem and ending up with a unit that works perfectly.

> So with the radio powered up and a BIG screwdriver, I
> start with the 1st AF socket, wedged the screwdriver between the socket
> and chassis and the HUM disappears. Soldered a ground wire from the
> eyelet and the chassis. Problem fixed!!! God, I'm glad I don't do this
> for a living! Hope this helps someone else, you ole timers may know this
> already.

You picked the right socket to start with. The 12SQ7 has the heater circuit connected to the chassis at one end, and that's 150 ma. of AC trying to walk across that rivet. On turn-on, when the tubes are cold, there is nearly 1500 ma. (that's an amp and a half) in the heater string, so any ohms are going to create hum---and heat, which makes the situation worse because it enhances any oxidation process.

If the equipment uses an aluminum chassis, with ground-through-rivet construction, hang onto your hat. 6061 aluminum (generally used in electronic work, although I've seen 2024 Alclad---same problems) is wonderful stuff, because aluminum is very happy to passivate itself by forming an oxide layer on its surface. The S-38 series (and other Hallicrafters stuff) uses cad plated steel, but I bring this up while I am thinking about it---HP test equipment is a notorious steel-on-aluminum-with-rivets user, and ohms across aluminum oxide are a very standard problem here. I think there was an article in Electric Radio last year on ground bonding in a Collins receiver, which pointed to the steel-on-aluminum problem. (Collins wizards can comment on construction of their iron).

A lot of "hum fixing" gets the parts changer approach---replace the filter caps, and if it doesn't go away, throw up your hands. With good test equipment readily available cheap from hamfests, you should have a Tek scope handy, and start chasing hum with it. Doesn't take an exotic scope---a 310 is a great little hum chaser. Just set the sweep trigger for LINE and start probing. Grounds are excellent targets for probes. Power supply hum is hard to interpret if you are approaching it cold, particularly on a half-wave setup like an AA5. Most old toob stuff that uses 5Y3, 5U4, 35Z5, etc.-type supplies has an incredible amount of 120 or 60 Hz. on it, and it takes some getting used to, to learn what's normal and what's trouble. If you see very solid hum reduction (on the order of 30-40 db. per section) in the power supply filters, they're working properly. (40 db. is a factor of 100). 80 db. on a 250 volt supply is still 25 millivolts (if I got the zeroes right). On pentode and tetrode plates, this is no problem, and output tubes often have more hum in the plate circuit as "normal." Yes, they can swallow it, because of high plate resistance (and, in the case of beam tetrodes, low screen transconductance). Watch out for RF-IF screens and particularly triode plates. Push-pull circuits (paraphase setups---generally only used in radio as output circuits) will swallow all kinds of hum (volts of it) because this is a common mode signal to them. A small electrolytic on a probe tip (3.3 mikes is what I use) can come in handy as a hum chaser. Placed on a signal grid terminal, it will kill any audio signal, so if the pain persists when you do this, the problem is elsewhere. I use this with HP 400 meters, which have a feedback loop, so it's hard to find where the hum is coming from. If you do have sick filter caps, motorboating, etc., 3.3 mikes across a sick cap will make a very significant change. For

RF parasitics, a .01 cap on a probe is a handy tool, used the same way. Walk forward through the circuits, and the first point that the cap shuts up the racket is where the parasitic is getting its input.

For ground bonding on riveted steel-on-steel construction, a blunderbuss soldering iron (I have a 100W heavy iron for this) and a solder bead across the rivet, underneath, works very nicely. On my project S-38, the oscillator coil had a bead from one of the mounting lugs to ground, but it was broken, which points out that resweating anything, even if it appears to be there already, is a good idea.

I'm somewhat astounded at what some folks (particularly the toob audio people) will do in the way of huge capacitors in power supply filters to try to get hum control. This is a lousy way to go about things. If 20 mikes isn't enough in a 5Y3 circuit, 100 isn't going to fix it. Putting 100 mikes in WILL make the power transformer run hotter than hell. Langford Smith gives 12% as the value of excess transformer heating with a cap input filter, but Hammond talks more like 35%. That's because of the lousy current waveform a cap input filter presents to the power transformer---particularly if low impedance rectifiers are used. Keep that input cap small, and add a choke behind it if you want hum control. Hammond makes some nice chokes for around \$20, and I would be very inclined to replace the resistor in an RC pi filter with a choke to get better hum control and reduced transformer heating. With 10 henries in an 80/5Y3 supply, and 10 mikes in front of it, you get good hum control and reduce the heating substantially, compared to 40 mikes and a 270 ohm resistor. This is one modification that I think is well-justified in postwar iron, which often tried to save money by eliminating magnetics.

Ground problems can also be a source of parasitics. With a scope, you can do a lot of probing around looking for noise.

>
> Merry Christmas, Tom Laird WC9M
> TL39597@deere.com
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Hank van Cleef
E-mail vancleef@netcom.com or vancleef@tmn.com
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From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: bdhall@ghg.net (Benjamin D. Hall)
Subject: SP-600 panel refinishing
Message-ID: <32BFFB36.1C70@ghg.net>

Hi Folks, several months ago I wrote up my experiances on SP-600 front panel refinishing. Did anyone save a copy of it? I've gotten some questions on what I did and the file I wrote up is in Houston... If so, could you send it to me off the list so I can pass it along to the interested parties? Thanks!

73,
Ben

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>From the computer of Benjamin D. Hall, junque collector extraordinaire.
Home for the holidays in Huntsville Alabama, deep in the Heart of Dixie.
e-mail: BDHall@GHG.net

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: johnz@earthlink.net
Subject: Sprague T0-5 Capacitor Checker manual copy needed
Message-ID: <199612240515.VAA01627@cyprus.it.earthlink.net>

I have a Sprague T0-5 Tel0hMike capacitor checker which starts off working when it is first turned on but "fades out" within 10 min of operation. Tubes check OK. If anyone could help me with a copy of their manual I would be most grateful. It would be invaluable in helping me repair the unit and learn more about its capabilities.

May you all have a peaceful Christmas!

John Zitzelberger W6GL
1563 El Cerrito Drive
Thousand Oaks, CA 91362

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: "Andy Howard, WA4KCY" <102452.362@compuserve.com>
Subject: SX-100 Parts Unit
Message-ID: <199612240925_MC1-DDD-A74B@compuserve.com>

Hello and Merry Christmas to all,

I have taken on the task of restoring an SX-88 for a friend. I need a parts unit SX-100 in order to get a pair of 50 kc. IF cans for the SX-88 detector stage. The SX-100 Mk. III has a 50.75 kc. IF which will work as well. Not sure of any physical differences in the cans but the SX-100 has the exact replacements.

Any help will be greatly appreciated. Will buy a working unit but prefer one that is too far gone for restoration so long as the IF's are good. My preference is not to destroy one radio in order to repair another no matter that the model number.

Thanks and 73,

Andy Howard, WA4KCY
102452,362@compuserve.com

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: ARONGV@aol.com
Subject: Thanks
Message-ID: <961223212701_1042117065@emout04.mail.aol.com>

To all BAs;

Thanks for pitching in on leads for 8236 tubes. Some of Santa's helpers even offered swap meet prices on good used ones to get me back on the air.

One lead took me to a Mom & Pop shop in MN, where lo and behold they had a pair. The lady apologized, because the cartons were so old they falling apart.

Also thanks to the gang for updating me on the 3B28s replacing 866. Looks like I got a good deal after all.

Good luck, and good hunting!

Ron Wo0IZ, Kansas City

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: Tube Socket Grounds
Message-ID: <UPMAIL03.199612250004310747@msn.com>

As Tom described, A riveted tube socket will eventually bite you in the

arse. BTW as usual, Hank gave a great disertation on this subject, goes in my Hank folder.

Now Hank, I just remembered that all the Hammurlands that I have , have I side of the rivet soldered.

BTW Hank, wish I could get back to the coils on the HQ-145 after reading your advise, seems like so little time to do everthing I want to do.

And Lastly, Iam sorry about the loss of your Mother. May she rest in a better world then this one.

Al
fritsche@msn.com

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: Rod Pears <orton@sentex.net>
Subject: Tube Tester Settings..
Message-ID: <199612242139.QAA08275@granite.sentex.net>

Merry Christmas & Happy New Years to all.. Decided to test all the tubes in my Halli SX-28A can't find any settings on the roll chart or the supplementary info supplied with the EICO 666 tester I'm using.. Does anyone have the settings for the following tubes, 6L7 6SA7 and 6AB7.. Looks like I will be changing wax caps for a while in this one.. 73 Rod

Rod Pears VA3RP 6062 8th line, Hillsburgh, Ont. N0B1Z0
Orton Communications / Comp-Ro Refrigeration
E-mail orton@sentex.net
ARRL RAC OTC WAS #2018 AMI-709 AWA FISTS #2684
Looking for SX-28A RF Gain Knob

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: gamrunrr1@juno.com (joe d spanker)
Subject: Twas The Night Before Christmas
Message-ID: <19961224.031752.9958.2.gamrunrr1@juno.com>

Twas the night before christmas when all through the house not a filament was glowing, to the joy of my Spouse, The caps were lined in the supply with care in hopes that a glimmer would soon be there. The listmembers were nestled all snug in their beds, with visions of Boat Anchors dancing in their heads. Frank with his Valiant and I with my Ranger had just tuned in to chat with the stranger. Out on the Band there arose such a clatter, I tuned my 390 to see what was the matter, away to the key I flew in a flash, turned on the amp and put out a dash.

The glow of the tubes in my transmitter i knew, would give off a beautiful purple hue, When what to my wondering eyes should appear but A runaway tube in my shiny old gear.

with a little old driver so glowing and hot I knew in a moment I was in a tough spot! More Rapid and urgent my keys became as I shouted and called them by name, Now David, now Danny, Now Paula, and Vinnie, on Charlie, on Kelly, on Dawny, and Timmy. To the list at the Porch and the Clicks of my Keys, I ask for your Help and fall to my knees.

Well I've about burned out my imagination on this portion, Maybe one of you more adventuresome fellows out here would care to add to the above? Merry Christmas to all and to all a good night!!!

73.....

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: DCPIN@aol.com
Subject: WTB 32S-3
Message-ID: <961223231901_1955476226@emout12.mail.aol.com>

Looking for a nice clean COLLINS 32S-3 with 516F-2 power supply to complete my first S-line. I,m looking forward to getting a station of "older gear" on the air. After reading a few days of the BA stuff I think I want to get a BA station operating. Thanks.....Chris K04QW 813-969-0572

From boatanchors@theporch.com Tue Dec 24 09:54:17 1996
From: jeffa@ix.netcom.com (Jeff Anderson)
Subject: WTB: SP-600 part
Message-ID: <199612241403.GAA10989@dfw-ix1.ix.netcom.com>

Is anyone parting out an SP-600 or know where to obtain SP-600 parts? A previous owner of mine cut off the "curl" on one of the side panels (this is the part that extends past the rear panel and curls back around).

I'd like to replace this panel, as the lack of the curl makes the remaining piece wobble when the unit is upside-down.

Thanks,

- Jeff, WA6AHL

From boatanchors@theporch.com Tue Dec 24 18:05:52 1996
From: Karan Lee Carruth <klccarru@tenet.edu>
Subject: WTB: TCS-14 Transmitter

Message-ID: <Pine.OSF.3.91.961224120538.13862A-100000@beall.tenet.edu>

Greetings, Merry Christmas and Happy New Year to all of the list members and your families.

I am looking for a TCS-14 transmitter in excellent, original condition for my collection. I also need a receiver cable and a remote control cable with plastic jackets in excellent to NOS condition.

I have an armored transmitter cable and three receiver plugs for trade if anyone needs them. I can trade other dash numbers of TCS transmitters for a -14 if anyone needs to match a set.

I have a TCS-5 loading coil. If anyone really needs it, I would trade for just about any other dash number.

Lenox, WA50VG
klccarru@tenet.edu